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FINAL REPORT

of the U.S. and U.S.S.R. Specialists Meeting for Project II-1 "Studies and Modeling of River Basin Pollution" of the Working Group on "Water Pollution Prevention" as Part of the Agreement on Soviet-American Cooperation on Environmental Protection (Philadelphia, Trenton, New York City, Albany, Boston, Ithaca, and Washington, D.C., 13 July - 8 August 1975)

In accordance with the Agreement between the United States of America and the Union of Soviet Socialist Republics on Cooperation in the Field of Environmental Protection, signed in Moscow on May 23, 1972, and the U.S.-U.S.S.R. program of mutual work for Project II-1, signed in Washington, D.C. on September 27, 1974, a delegation of Soviet specialists concerned with river basin modeling and planning visited the United States 13 July through 8 August 1975.

The Soviet delegation was headed by E. V. Eremenko, Chief of the Laboratory of Hydraulic Research of the All-Union Scientific Research Institute for Water Protection.

The U.S. side was headed by Mark A. Pisano, project leader for the American side of Project II-1, "Studies and Modeling of River Basin Pollution" and Director of the Water Planning Division of the Environmental Protection Agency.

A list of the Soviet and American participants is attached (Appendix No. 1).

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The visit of the Soviet water pollution specialists to the United States (See Appendix No. 2 for program of visit) was designed to familiarize the Soviet specialists with the process and organizational structure of American activities in the field of water quality management. By means of technical trips and discussions the Soviet experts were acquainted with the various stages of the water protection planning process, as well as the techniques and methodologies currently employed in the U.S.

Through discussions with representatives of EPA in Washington and the regional offices (Philadelphia and New York City) the Soviet visitors were acquainted with the Federal role in this effort. Discussions were held with representatives of the Delaware River Basin Commission, the New York State Department of Environmental Conservation and officials of Middlesex County, New Jersey to present a picture of basin-wide, state and local activities. Also, meetings were held with specialists at Cornell University and Meta Systems, Inc. to provide an appreciation of the role of the academic and private sectors in American water quality activities.

As a result of these discussions with representatives at all levels, the Soviet side was presented an overall picture of U.S. water protection measures, both theoretical and applied. In addition, the Soviet specialists were acquainted with several new approaches, including the inclusion of tidal effects in the modeling of the Delaware and Hudson River basins, and the work being done by U.S. specialists to incorporate nonpoint sources of pollution in their planning activities.

Both sides agreed the visit served to advance the program of mutual work agreed to in the Record of Discussions of September 27, 1974, and

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agreed the cooperative work be continued in the direction outlined in that document.

Both delegations expressed their satisfaction that the visit and mutual work were held in an atmosphere of friendship and full cooperation.

This report was agreed upon and signed in Washington, D.C. on August 8, 1975, in two copies, English and Russian, both copies being equally valid.

Mark A. Pisano

Mark A. Pisano
Director
Water Planning Division
Environmental Protection Agency

E. V. Eremenko

E. V. Eremenko
Chief of the Laboratory
of Hydraulic Research,
All-Union Scientific
Institute for Water Protection

Soviet Delegation:

Head: E.V. Eremenko, Chief of the Laboratory of Hydraulic Research,
All-Union Scientific Research Institute for Water Protection
(VNIIVO).

A. K. Kuzin, Chief of the Water Protection Measures Planning,
VNIIVO

American Delegation:

Head: Mark A. Pisano, Director of the Water Planning Division, United
States Environmental Protection Agency.

John Kingscott, Areawide Management Branch, Water Planning
Division, EPA

Dr. D. P. Loucks, Chairman, Department of Environmental Engineering,
Cornell University.

Russell J. deLucia, President, Meta Systems, Inc.

Gregory B. Sprow, Administrative Aide, Water Planning Division, EPA.

Interpreter: Alexey A. Kiselev

Other U.S. Participants:

EPA, Washington, D.C.

Walter S. Groszyk, Water Planning Division

Harry Torno, Research and Development

William A. Brown, Executive Secretary for U.S./U.S.S.R.
Environmental Program

David Green, Technical Advisor to Mark Pisano

Nicolas M. Golubin, Office of Regional Liason

EPA, Region III, Philadelphia

Daniel J. Snyder III, Regional Administrator

Edward V. Geismar

Daniel J. Fitzgerald, Modeling Section, Surveillance
and Detection

Leo Clark, EPA Laboratory, Annapolis

Delaware River Basin Commission, Trenton, N. J.

James F. Wright, Executive Director, DRBC

Seymour Gross, Water Quality Branch

Richard Tortoriello

EPA, Region II, New York City

Charles N. Durfor, Chief, Water Branch, Environmental Programs Branch

James P. Rooney, Chief, Technical Evaluation Section

Sal Nolfo, Technical Evaluation Section

Fran Brezenski, Edison, N. J. Laboratory

Middlesex County, New Brunswick, N. J.

Douglas S. Powell, Director, Middlesex County Planning Board

William Kruse, Section 208 Project Manager for Middlesex County

New York State Department of Environmental Conservation, Albany

Mr. Seebald, Director, Division of Pure Waters

Mr. Trad, Assistant Director

William Berner, Survey and Analysis Section

Bruce Goodale

Meta Systems, Inc., Boston

Joseph J. Harrington

Myron B. Fiering

Peter Philip Rogers

Tze-wen Chi

Jochen Kühner

Meta Systems, cont.

Graham Dandy

Charles Laws

Mr. Chamberlain

Cornell University, Ithaca, N. Y.

Dr. James Liggett

Dr. Christine Schumacher

Dr. Gilbert Levin, Director, Cornell Water Research
and Marine Science Center

Dr. Walter Lynn, Director, Center for Environmental
Quality

Dr. R. C. Loehr

ITINERARY FOR VISIT
OF TWO SOVIET TECHNICAL SPECIALISTS TO THE U.S.

Project II-1.1,
"Studies and Modeling of River Basin Pollution"

July 13 to August 8, 1975

<u>Day</u>	<u>Date</u>	
1	Sun. July 13	USSR specialists arrive in N.Y.C. (JFK Airport, Aeroflot #311, arriving at 7:30 p.m.) Check into International Hotel.
2	Mon. July 14	Fly from N.Y.C. to Washington, D.C. Check into Metropolitan Hotel and visit Meet with Project II-1.1 Director, Mark Pisano - overview of EPA
3	Tues. July 15	FREE
4	Wed. July 16	Meet with John Kingscott of EPA's Water Planning Division (9:30 a.m.). - General introductory discussion of Delaware River Basin. - Review of recent modeling activities. - Nonpoint discharges. Leave for Union Station (2:00 p.m.). Train (Metroliner) departs Washington at 3:00 p.m. for Philadelphia, Pa. Check into Ben Franklin Hotel.
5	Thurs. July 17	Discussions with representatives of EPA Region III Office (9:30 a.m.). Examination of Delaware River Basin - Topographic, hydrogeologic, and hydraulic characteristics of the river. - Regional basin planning and modeling activities. - Sources of pollution.

Day Date

6	Fri.	July 18	Drive to Trenton, N.J. (8:30 a.m.) Conference with representatives of Delaware River Basin Commission (9:30 a.m.). - Practical methods and application of basin planning and modeling. - Waste load allocations. - Use of waste load allocations and modeling in permit activities. Travel by train to N.Y.C. and check into Belmont Hotel.
7	Sat.	July 19	FREE
8	Sun.	July 20	FREE
9	Mon.	July 21	Conference with EPA Region II Basin Planners, N.Y.C., N.Y. - Water Quality modeling with cost effective management. - Hudson River Basin Model
10	Tues.	July 22	Continue discussions with EPA Region II repre- sentatives. - Middlesex County, N.J., 208 Program - EPA Edison, N.J. Laboratory
11	Wed.	July 23	Conclude discussions with EPA Region II.
			Fly from N.Y.C. to Albany, N.Y. (depart JFK at 3:35 p.m. and arrive at 4:21 p.m.). Check into Holiday Inn.
12	Thurs.	July 24	Meeting with New York State Basin Planners - Techniques and applications as practiced by a State.
13	Fri.	July 25	- Field trip to Mohawk River. Conclude meetings with New York State Basin Planners.
14	Sat.	July 26	Fly from Albany to Boston (depart 8:37 a.m. and arrive 9:14 a.m.). Check into Harvard Motor House. FREE

Day

15	Sun.	July 27	FREE
16	Mon.	July 28	Meetings with representatives of Meta Systems, Inc.
17	Tues.	July 29	Continue discussions with Meta Systems.
18	Wed.	July 30	Fly from Boston to Binghamton (depart 3:30 p.m. and arrive 4:22 p.m.). Drive from Binghamton to Ithaca, N.Y. (Cornell University). Check into Statler Inn.
19	Thurs.	July 31	Conference with Dr. Loucks and associates at Cornell University. - Optimization modeling. - Finite elements techniques.
20	Fri.	Aug. 1	Continue discussions with Dr. Loucks and associates.
21	Sat.	Aug. 2	Fly from Ithaca to Washington, D.C. (depart 11:58 and arrive 1:05). Check into Statler Hilton Hotel.
22	Sun.	Aug. 3	FREE - Picnic
23	Mon.	Aug. 4	FREE
24	Tues.	Aug. 5	Develop uniform format for U.S./U.S.S.R. River Basin Project Analysis.
25	Wed.	Aug. 6	Develop uniform format for U.S./U.S.S.R. River Basin Project Analysis.
26	Thurs.	Aug. 7	Discussion and Summary of work results. Meet with Dr. Torno, Storm Water Management Model. Discuss protocol.
27	Fri.	Aug. 8	Concluding session. Sign protocol. Return to U.S.S.R.

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